THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE FULL-COLOR TRAFFIC SIGNAL AT THE INTERSECTION OF MD 45 (YORK RD) AT TOWSONTOWN BLVD. THE INSTALLATION INCLUDES LED SIGNAL HEADS. LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, APS PUSHBUTTONS AND SIGNS, IP-BASED VIDEO DETECTION CAMERAS AND SIGNS, MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE FULL-TRAFFIC-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASES FOR THE NORTH AND SOUTH LEGS AND CONCURRENT PEDESTRIAN PHASES FOR THE EAST AND WEST LEGS OF THE INTERSECTION, THE TOWSONTOWN BLVD LEFT TURNS OPERATE IN EXCLUSIVE-PERMISSIVE PHASING.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET SHALL BE REMOVED. A NEW FULL - TRAFFIC -ACTUATED EIGHT-PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE FURNISHED BY SHA AND INSTALLED BY THE CONTRACTOR, A 2-WIRE APS CENTRAL CONTROL UNIT SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY SHA. IP-BASED VIDEO DETECTION INTERFACE EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY SHA. THIS CONTROLLER IS THE MASTER CONTROLLER FOR THE SYSTEM WHICH INCLUDES MD 45 AT TOWSONTOWN BLVD, MD 45 AT CHESAPEAKE AVE AND MD 45 AT PENNSYLVANIA AVE

SPECIAL NOTES

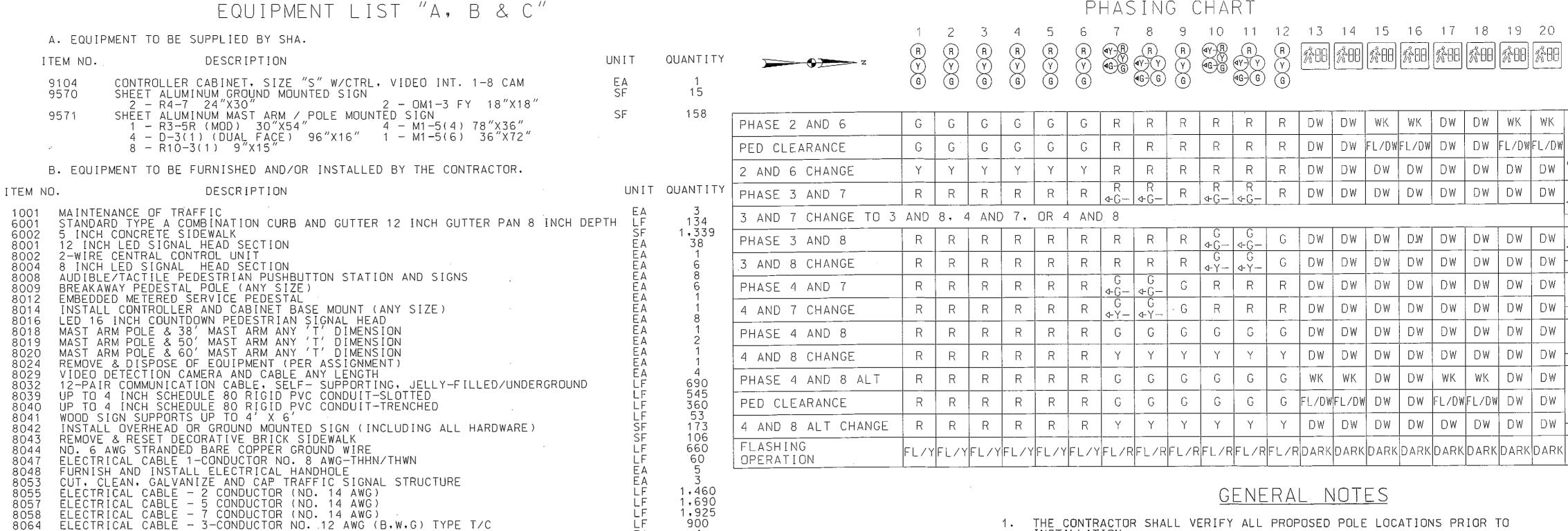
APS WILL FUNCTION AS FOLLOWS:

TO CROSS MD 45 (YORK ROAD):

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS YORK AT TOWSONTOWN, WAIT,
- WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.
- TO CROSS TOWSONTOWN BOULEVARD:
- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS TOWSONTOWN AT YORK, WAIT,
- WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

PHONE DROP:

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.



THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.

PHASING CHART

- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
- ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. EXISTING PEDESTRIAN LIGHTING CABLE SHALL REMAIN IN CONDUIT AND SHALL NOT BE DAMAGED BY REMOVAL OF EXISTING TRAFFIC SIGNAL CABLE THAT WILL NO LONER
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- 6. ALL PEDESTAL FOUNDATION TOPS SHALL BE INSTALLED FLUSH WITH SIDEWALK GRADE,
- 7. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTION 4E.09 AND FIGURE 4E.2 AND THE NCHRP PUBLICATION, ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE. " IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- 8. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- 9. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON. NOT CENTER OF POLE TO CENTER OF POLE.
- 10. PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- 11, PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
- 12. VIDEO DETECTION CAMERA ALIGNMENT SHALL BE COORDINATED WITH THE ENGINEER.
- 13. DURING CONSTRUCTION, PROPOSED SIGNAL EQUIPMENT SHALL NOT BLOCK EXISTING SIGNAL EQUIPMENT.
- 14. THE CONTRACTOR SHALL CAP AND ABANDON CONDUITS FEEDING EXISTING SIGNAL EQUIPMENT THAT IS REMOVED.

TOD NO: XY125-13 SHA NO: BA087B58 MD 45 @ Towsontown Boulevard

www.rkk.com

REVISIONS

STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION MD 45 (YORK ROAD) AT

STATE OF MARYLAND

DEPARTMENT OF TRANSPORTATION

TOWSONTOWN BOULEVARD TOWSON, MARYLAND

GENERAL INFORMATION SHEET SCALE NONE DATE OCTOBER 2012 CONTRACT NO. XY1255185 COUNTY ___ BALTIMORE DESIGNED BY WFW LOGMILE 03004501.86 TIMS NO. __ TOD NO. SHEET NO. 2 OF 5 TS NO. 2095F-GI DRAWING SP-2 OF 2

PLOTTED: Wednesday, October 10, 2012 AT 08:16 AM FILE: \/rkkm\vz008\2008\08148_tcddes\Task 138_MD 45 at Towsontown\CADD\pSG-0002_MD45@Towsontown-Gl.dgn

	WIRING KEY
A,B,C,D, E,F,G,H	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
I.J.K.L.M.N, O.P.Q.R.S.T	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
U,V,W,X,Y, AA,BB,CC	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
DD,EE,FF,GG	IP-BASED VIDEO DETECTION CAMERA CABLE
HH,II,JJ,KK	3-CONDUCTOR ELECTRICAL CABLE. TYPE T/C (NO. 12 AWG
LL	1-CONDUCTOR ELECTRICAL CABLE (NO. 8 AWG-THHN/THWN) 3 RUNS
ММ	12-PAIR INTERCONNECT COMMUNICATION CABLE (SEE INTERCONNECT PLAN FOR DETAILS)
Z	STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
PF	PROPOSED UNDERGROUND POWER FEED BY BG&E
PD	PROPOSED PHONE DROP
-	EXISTING GROUND ROD
	PROPOSED GROUND ROD

CONTACT PERSONS FOR DISTRICT #4 ARE AS FOLLOWS:

MS. ERIN KUHN ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (410) 229-2381

MR, ANDRE FUTRELL ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 229-2361

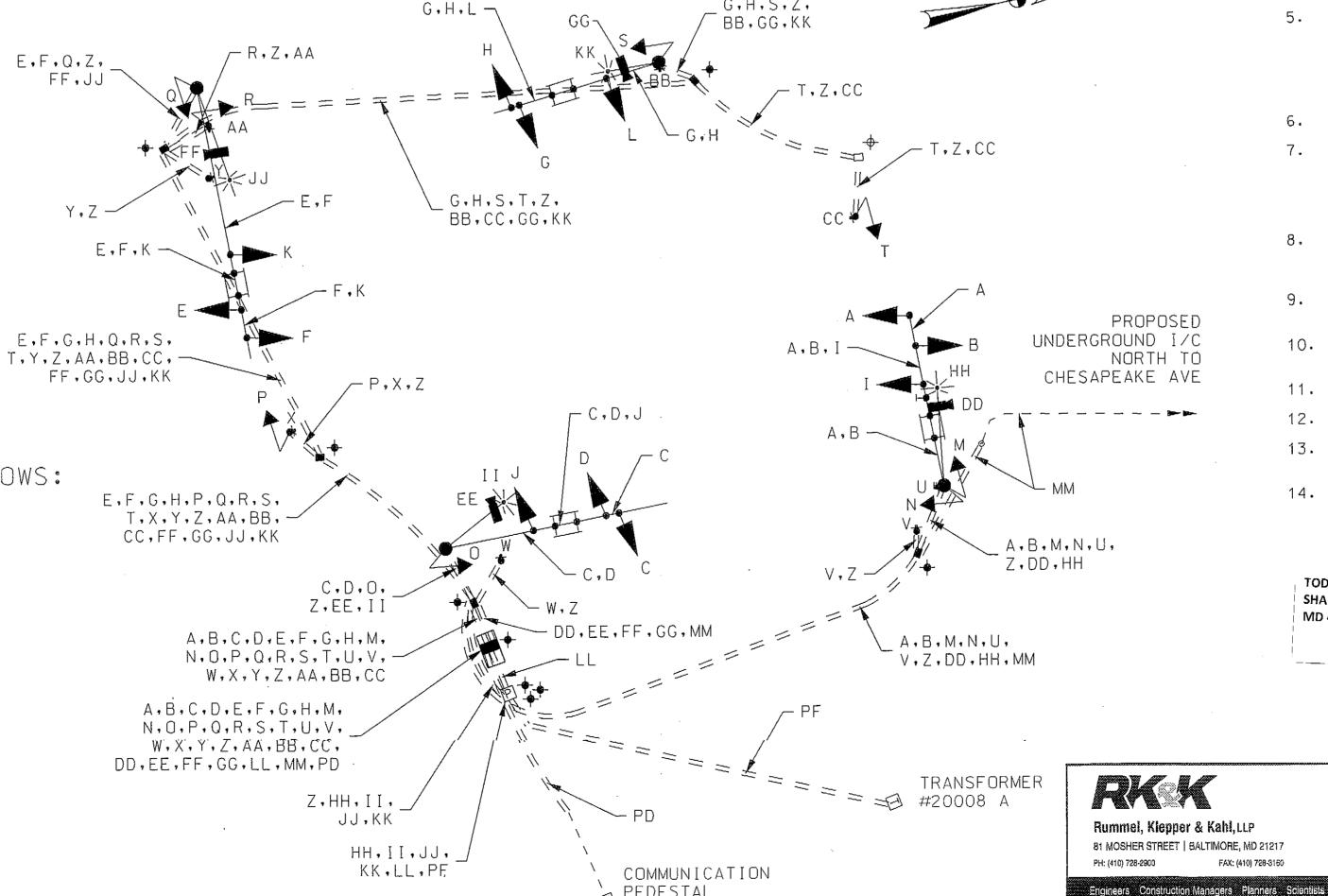
MR. JESSE FREE ASSISTANT DISTRICT ENGINEER - CONSTRUCTION (410) 229-2421

CONTACT PERSONS FOR ODTS ARE AS FOLLOWS:

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF TRAFFIC OPERATIONS

MR. EUGENE BAILEY MR. ED RODENHIZER CHIEF, SIGNAL OPERATIONS (410)787-7676 (410)787-7650

(410)787-7630 CHIEF, SIGN OPERATIONS



G,H,S,Z,

PEDESTAL # 2

ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH LED LUMINAIRE

RETURNED TO SHA.

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE

CONTRACTOR EXCEPT FOR THE CONTROLLER AND VIDEO DETECTION CAMERAS, WHICH SHALL BE